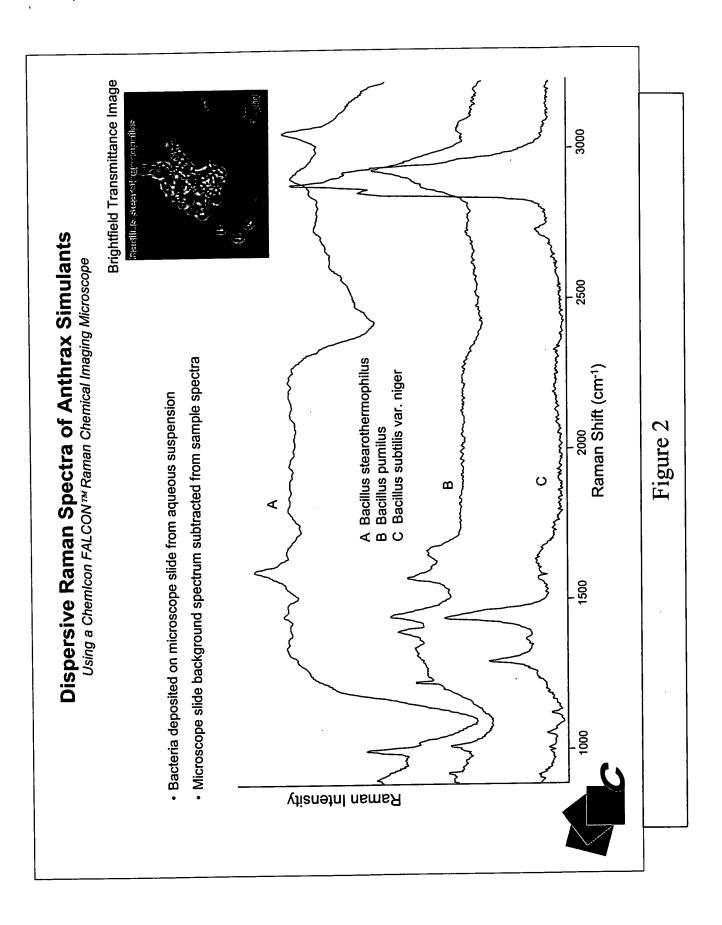
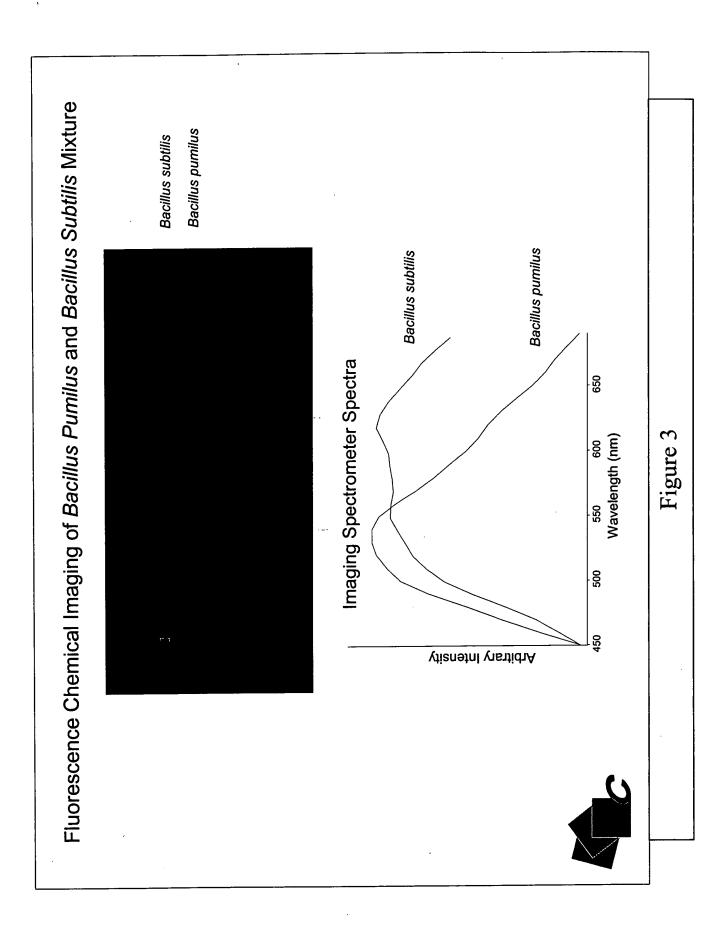
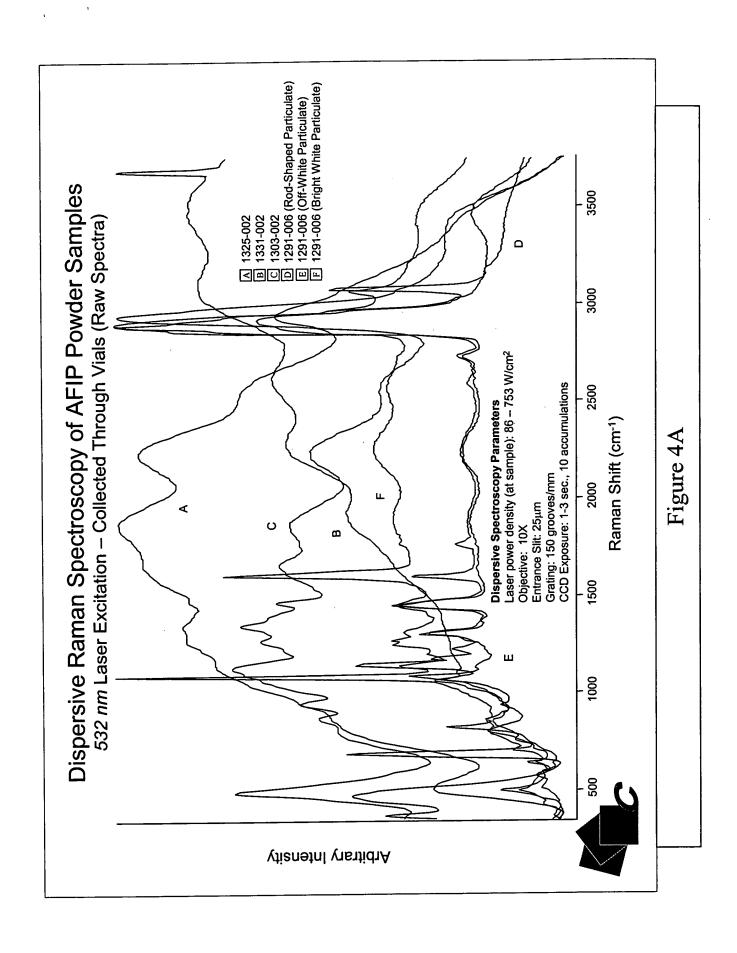
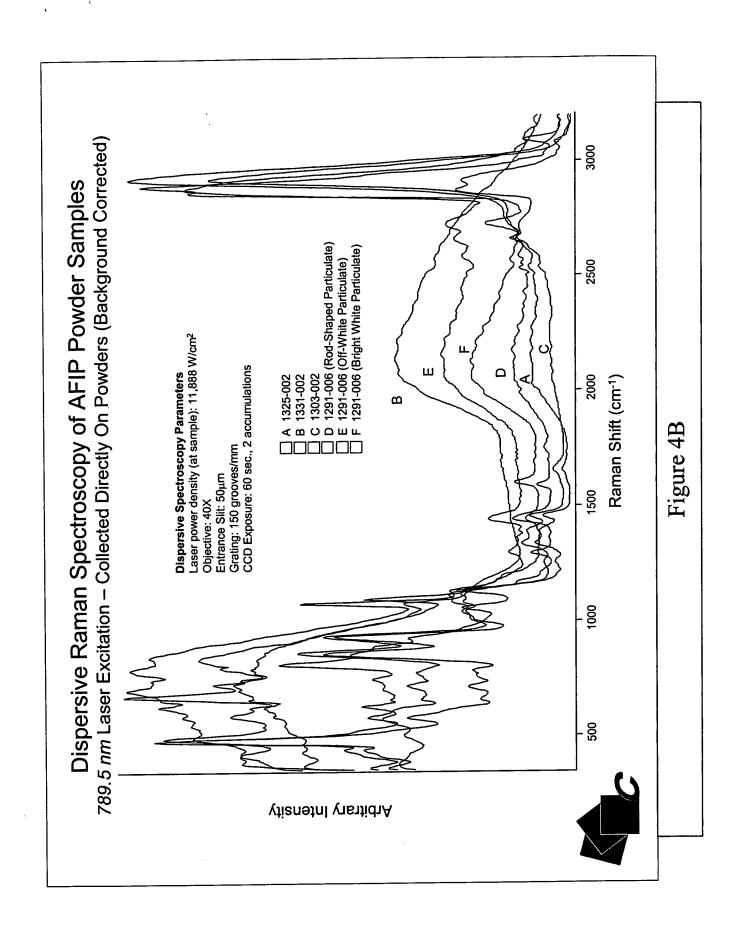


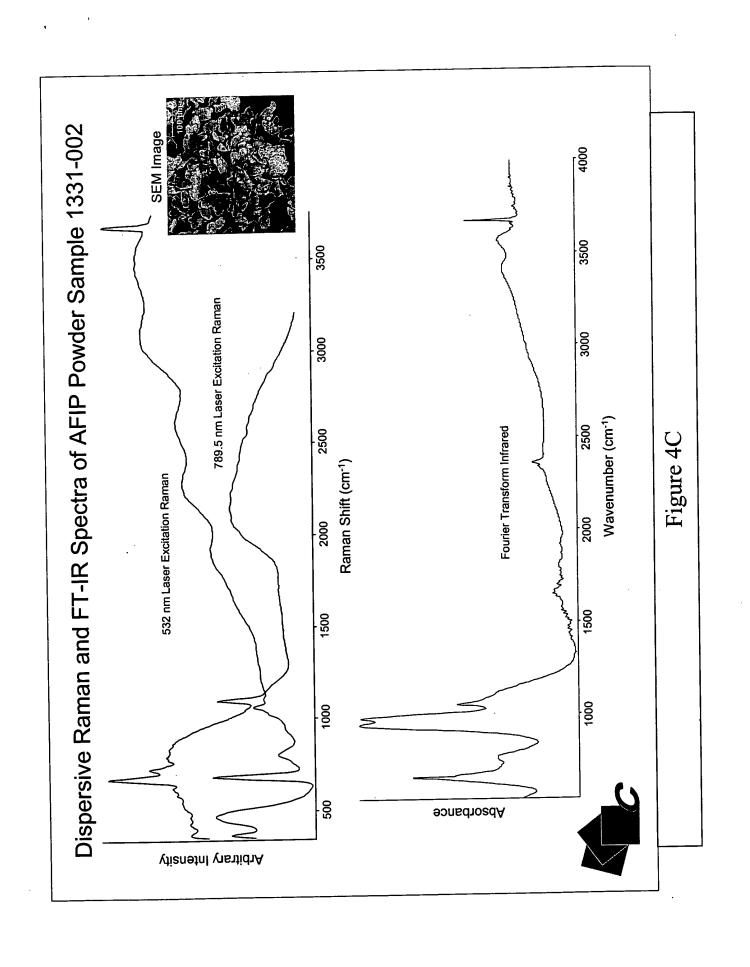
Figure 1

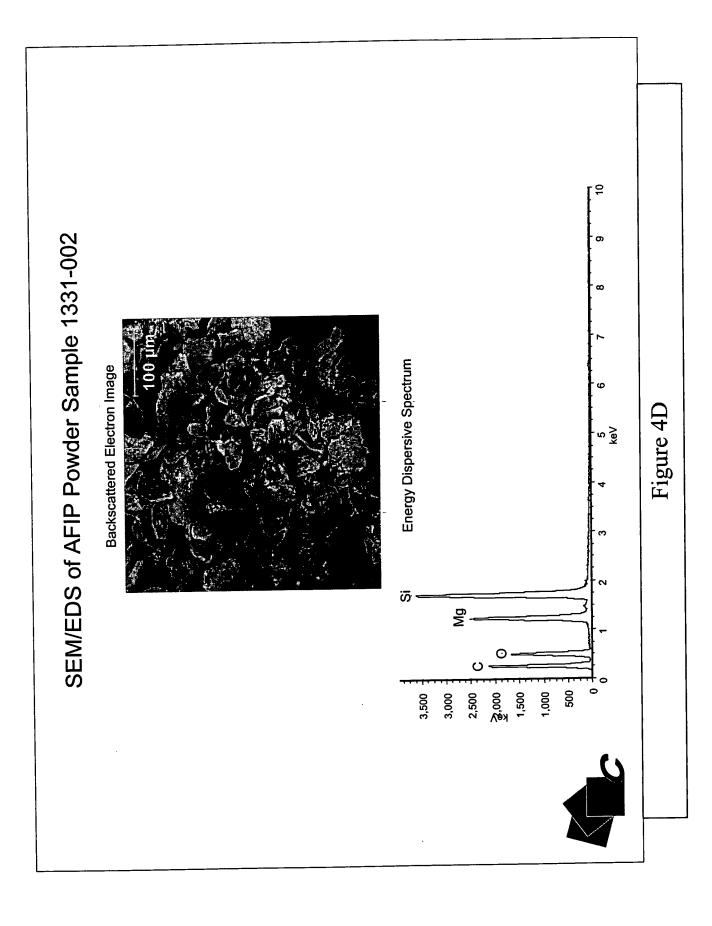


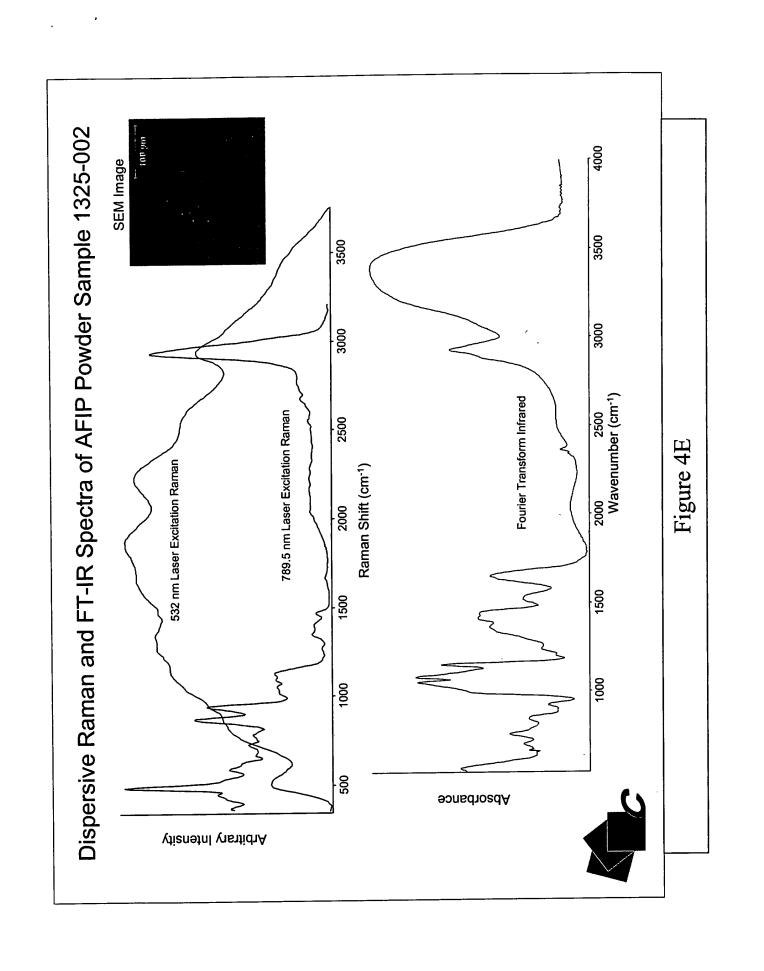


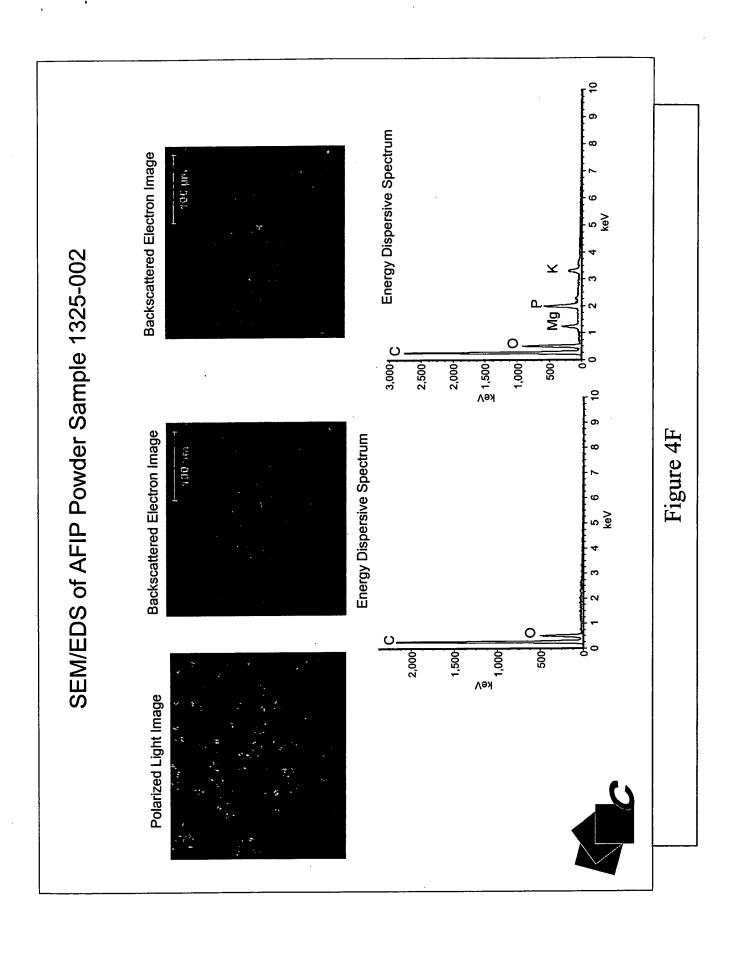


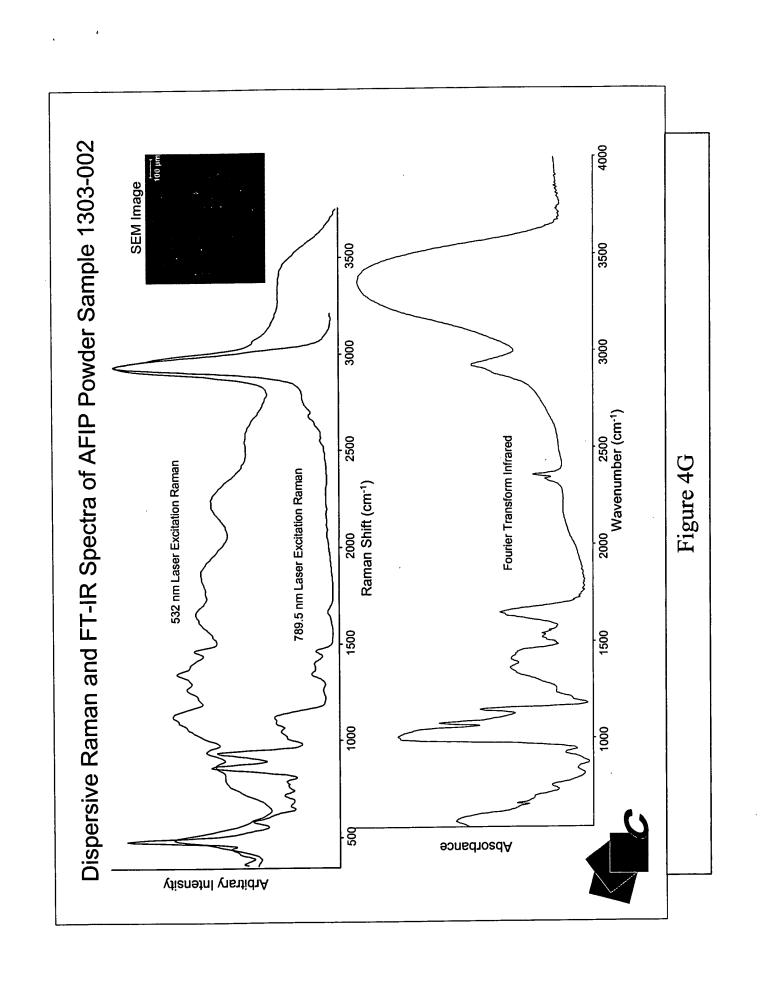


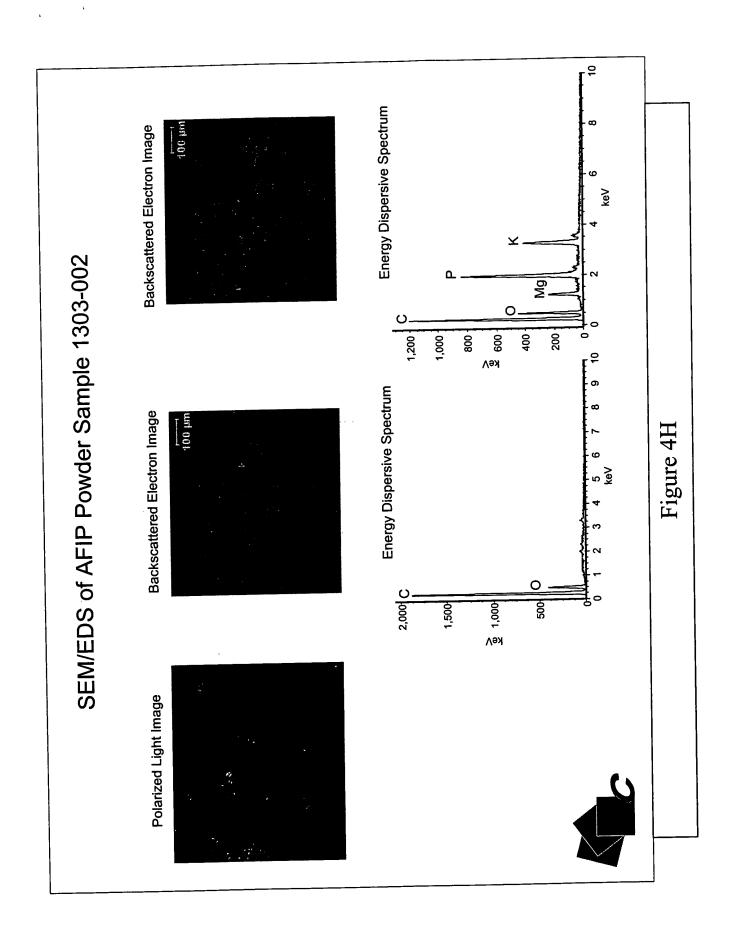


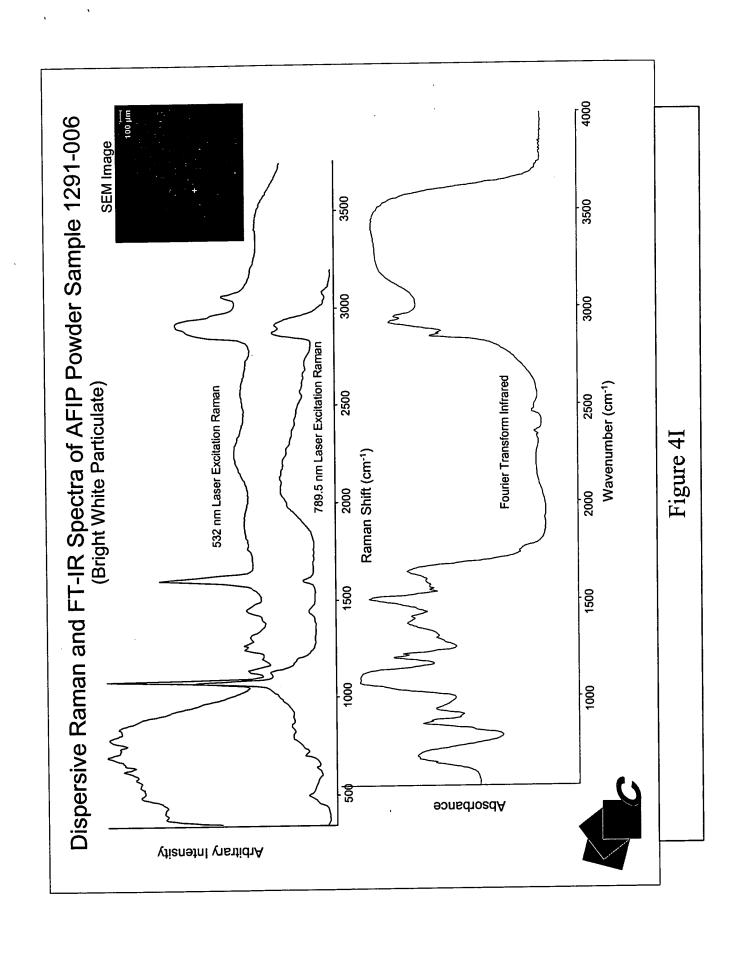


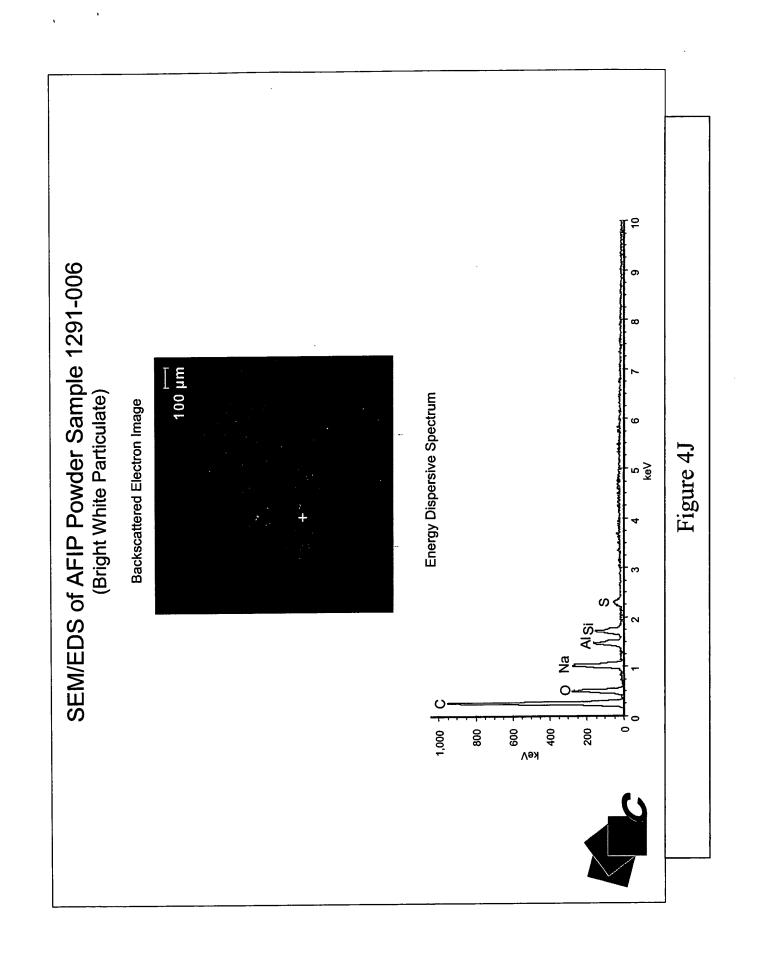


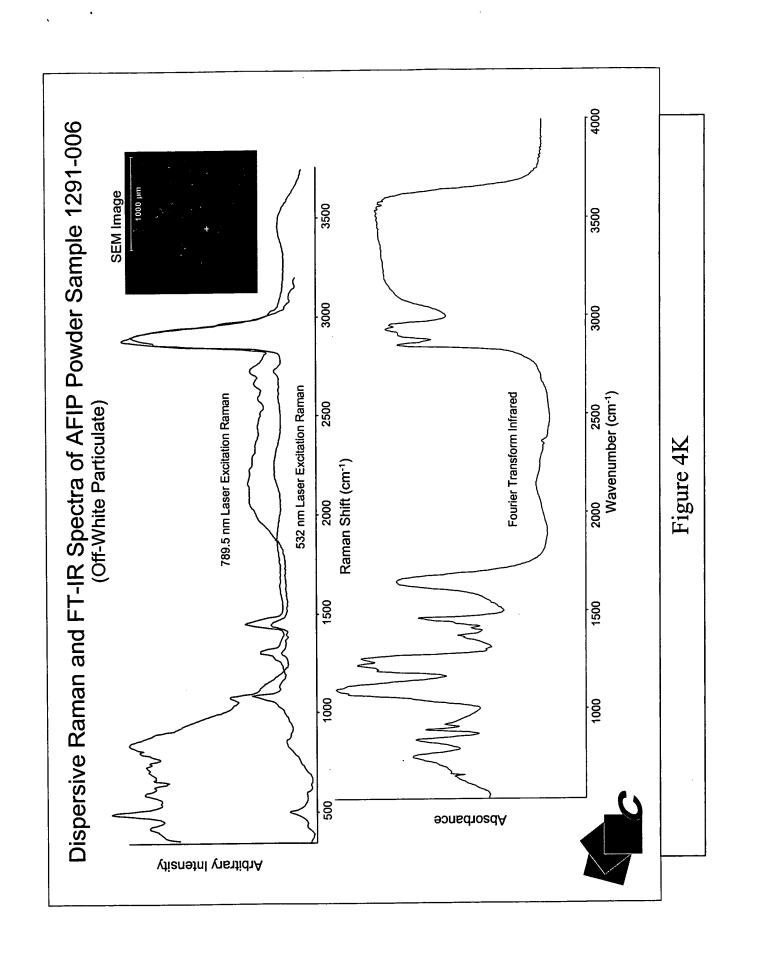


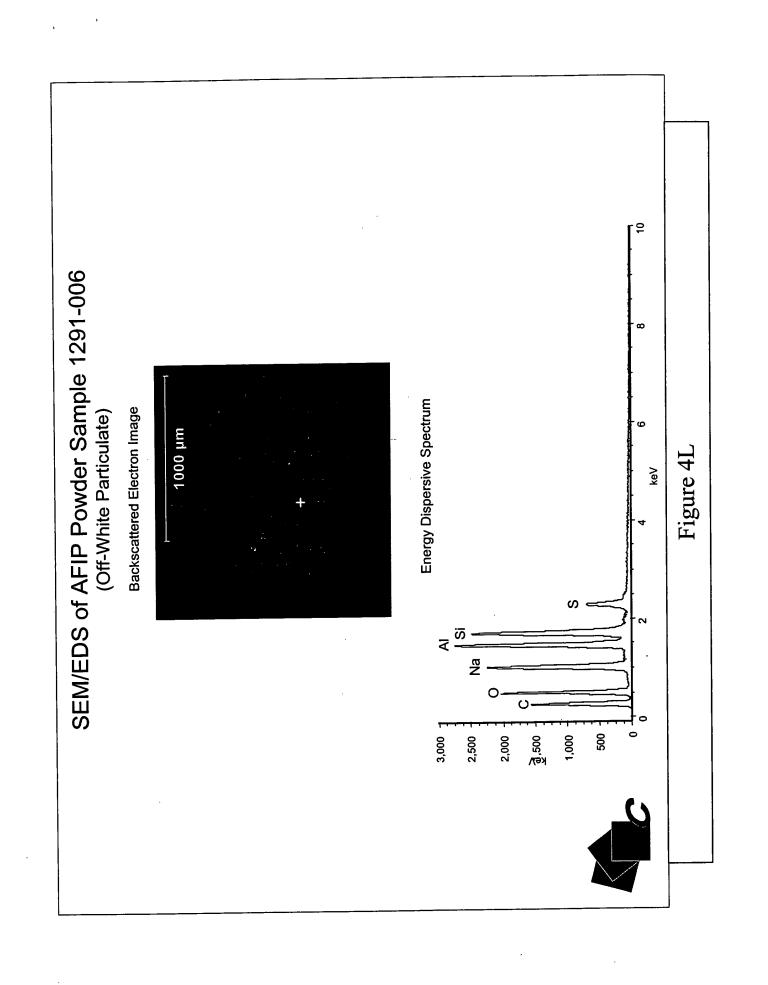


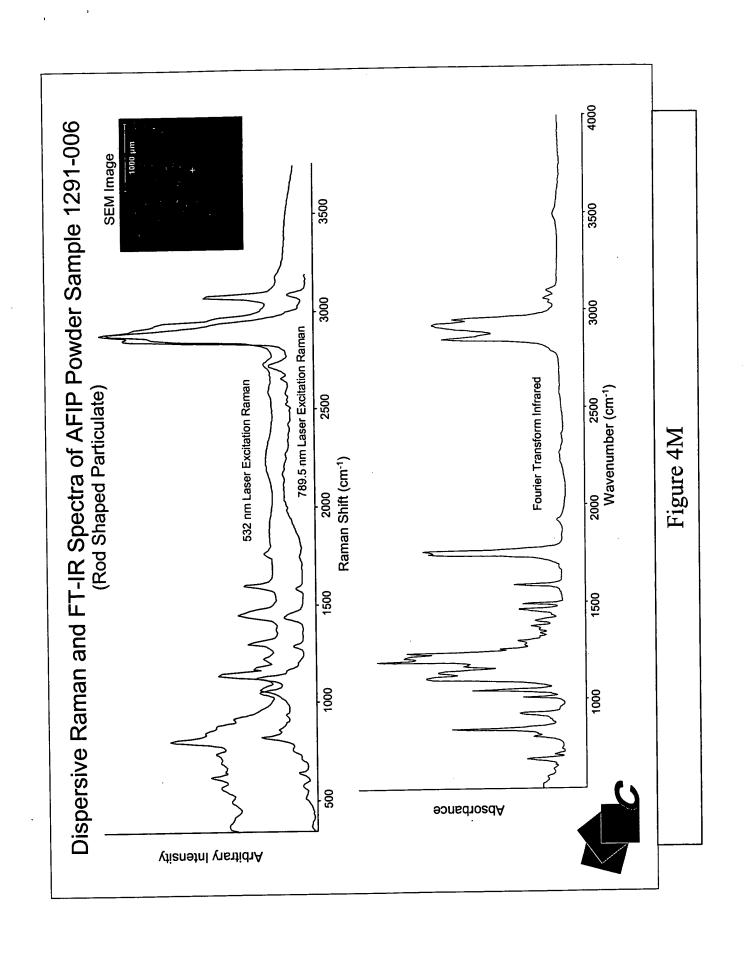


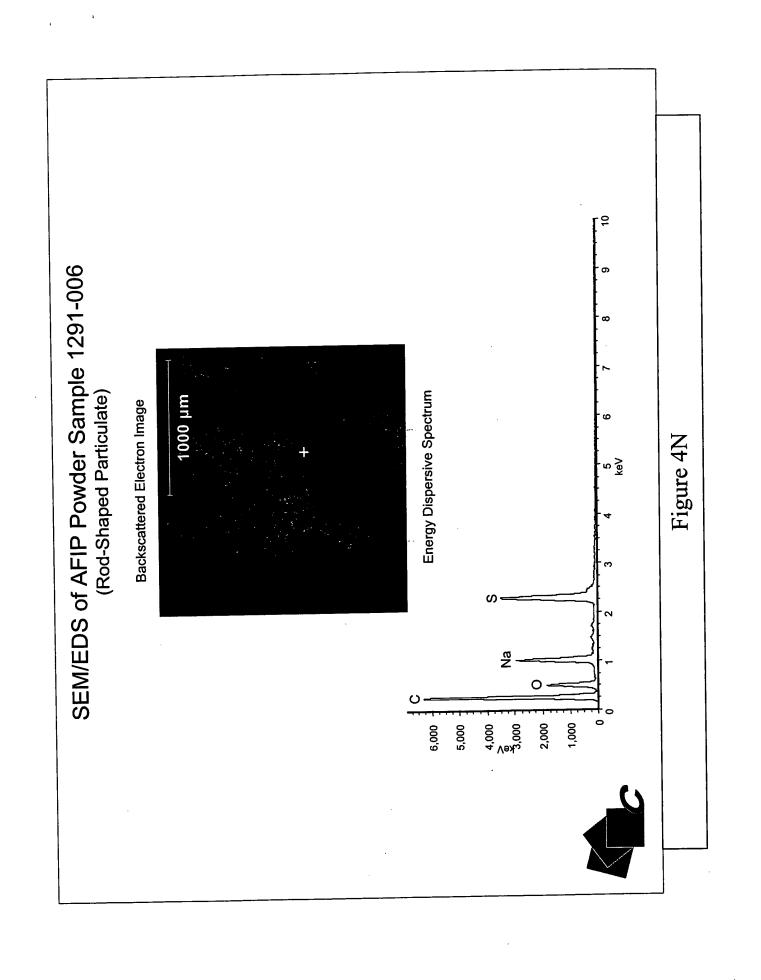


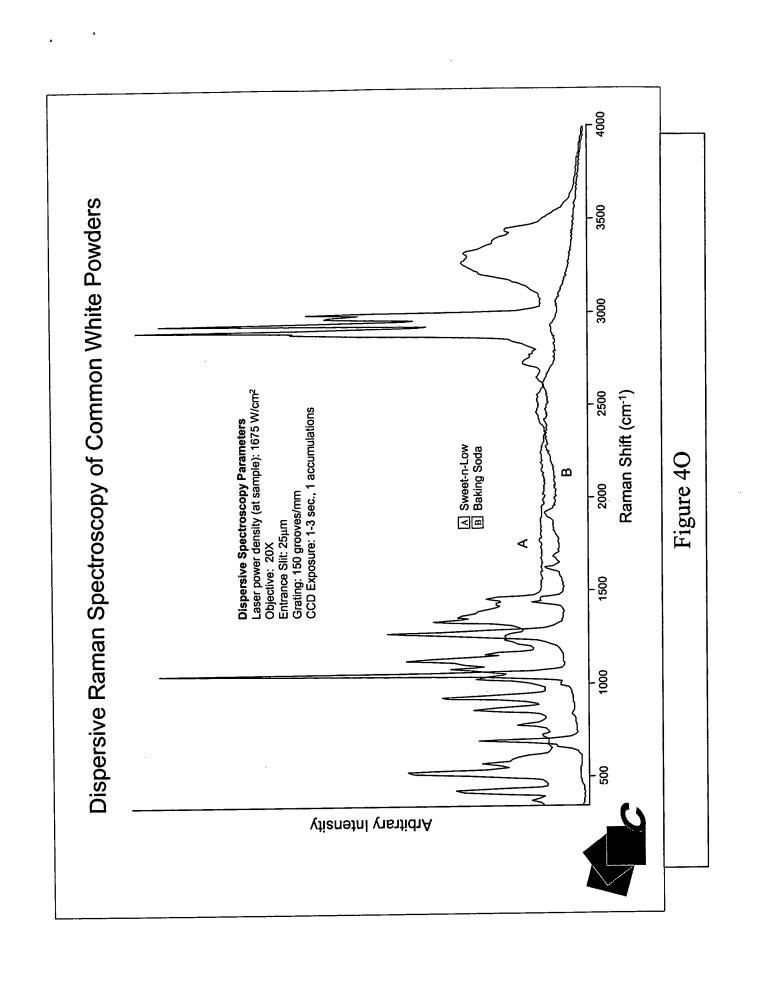


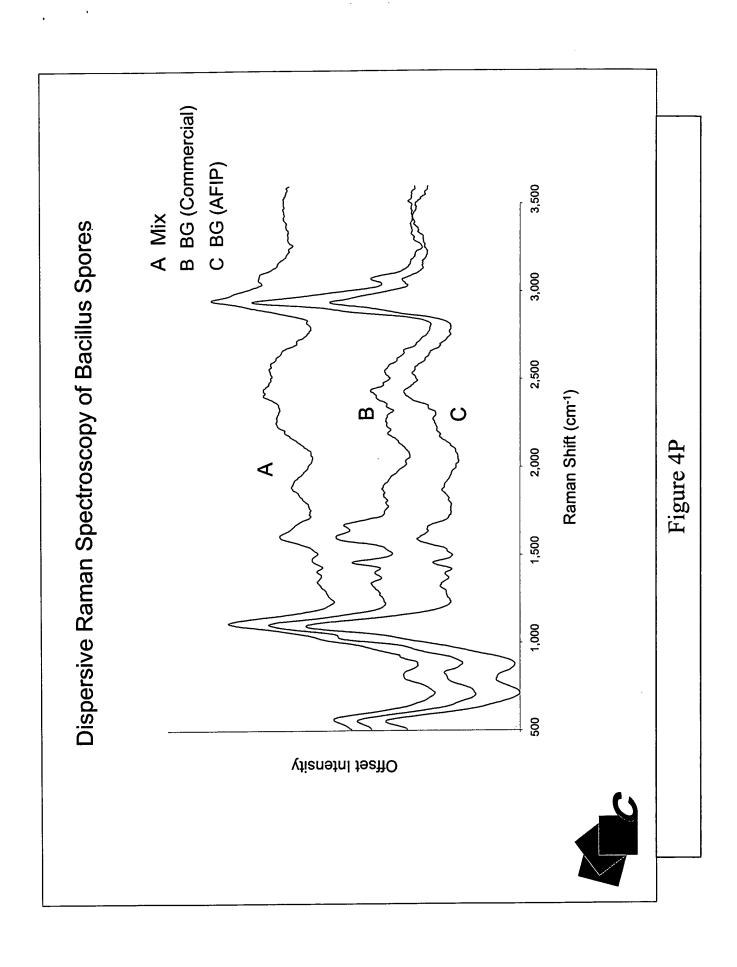


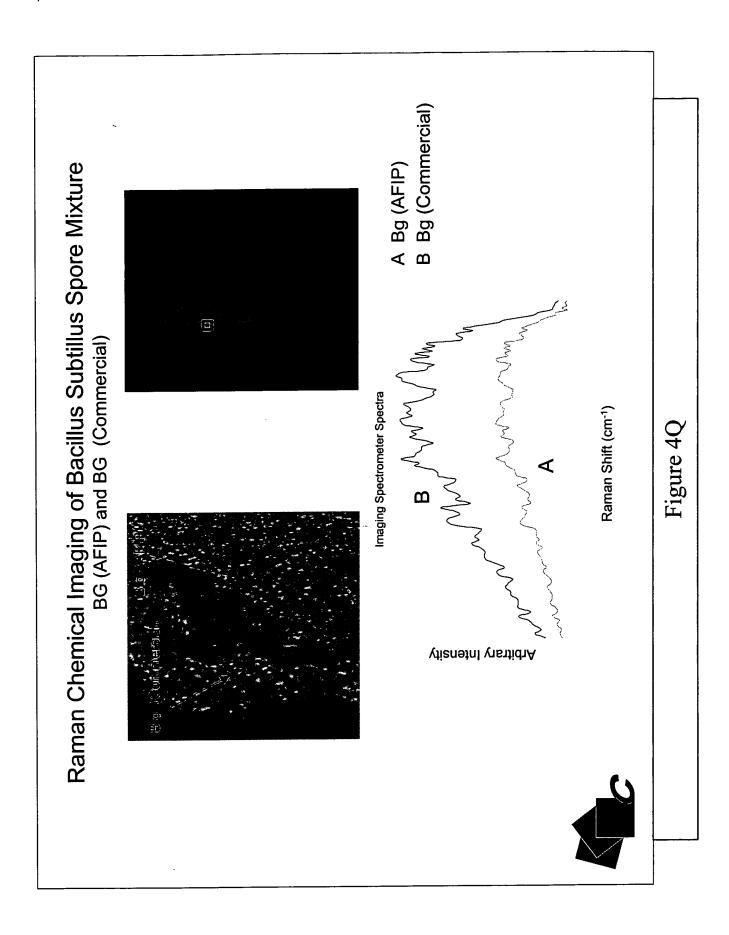


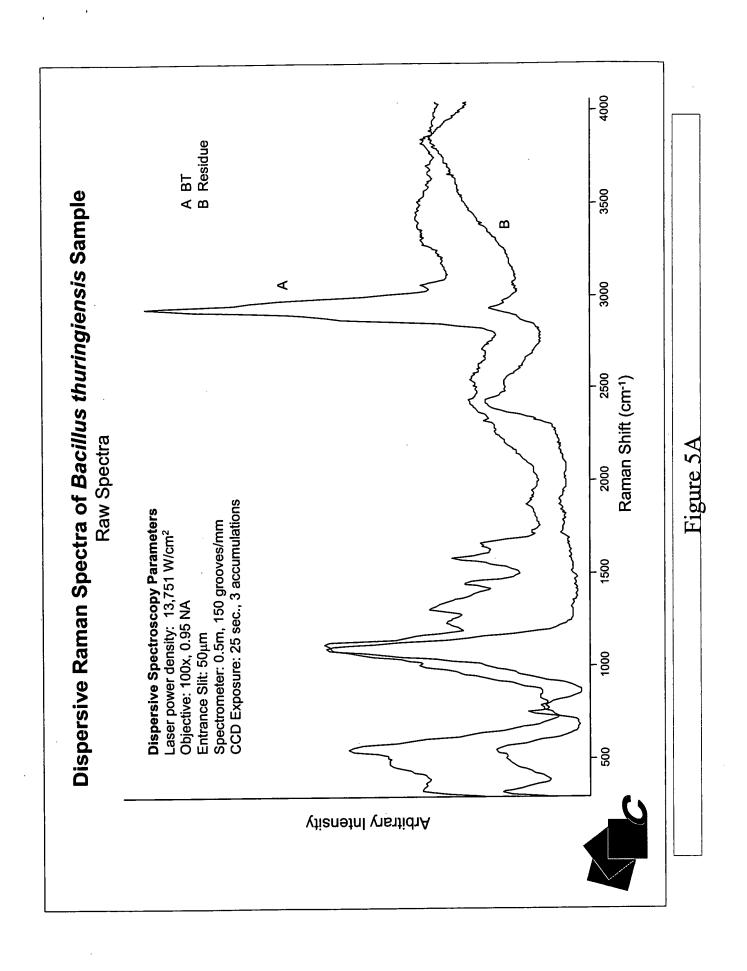


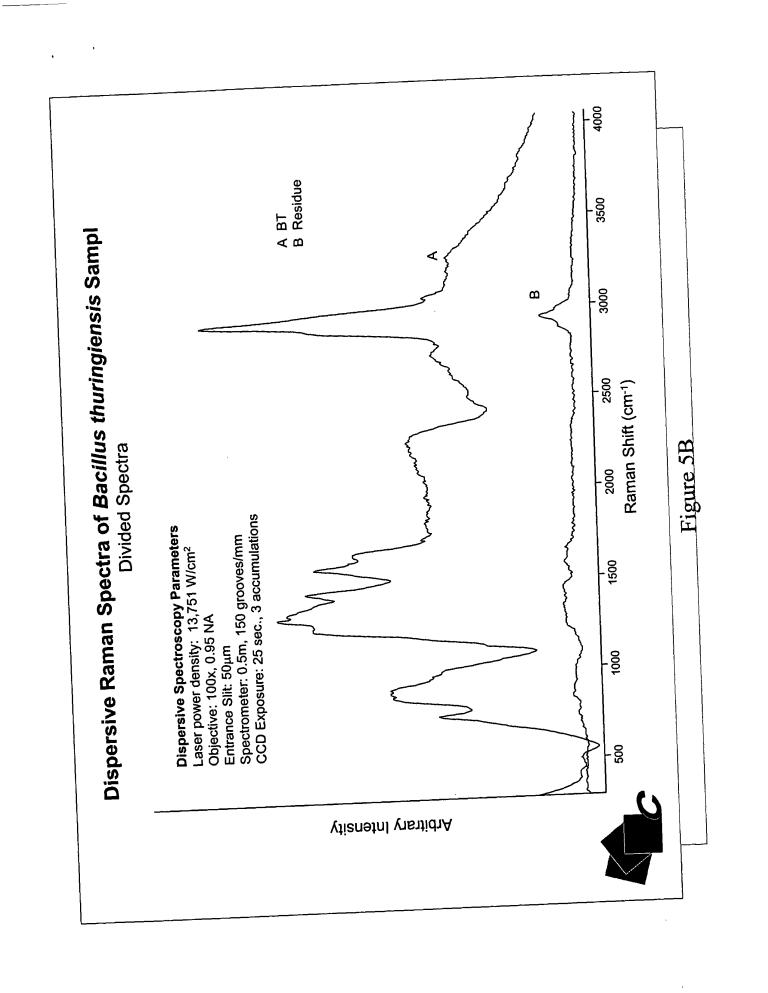


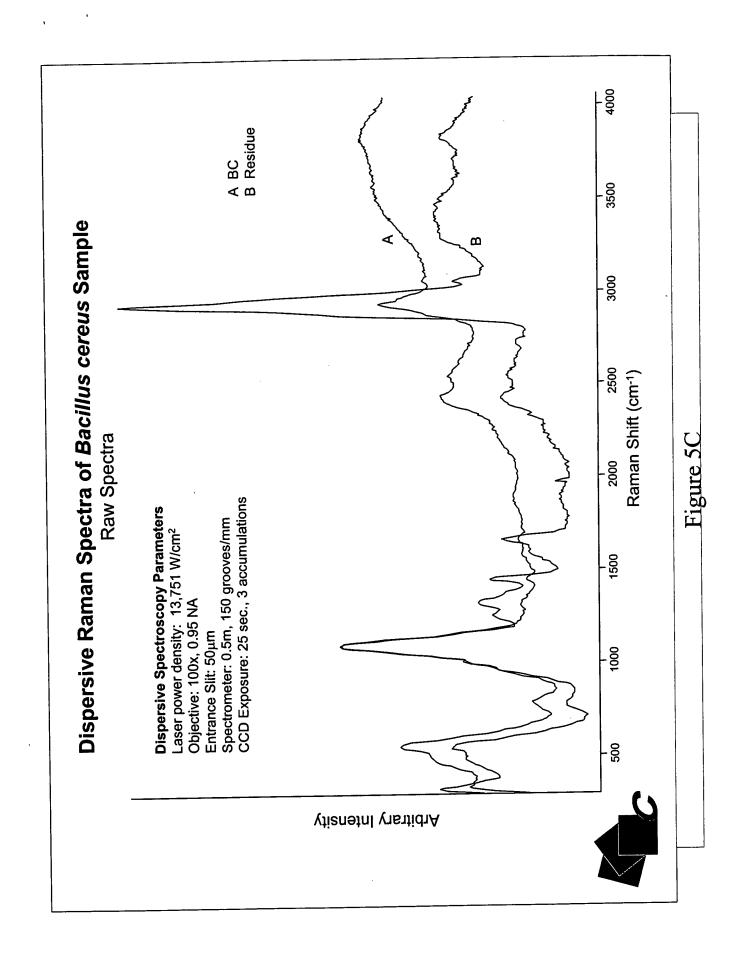


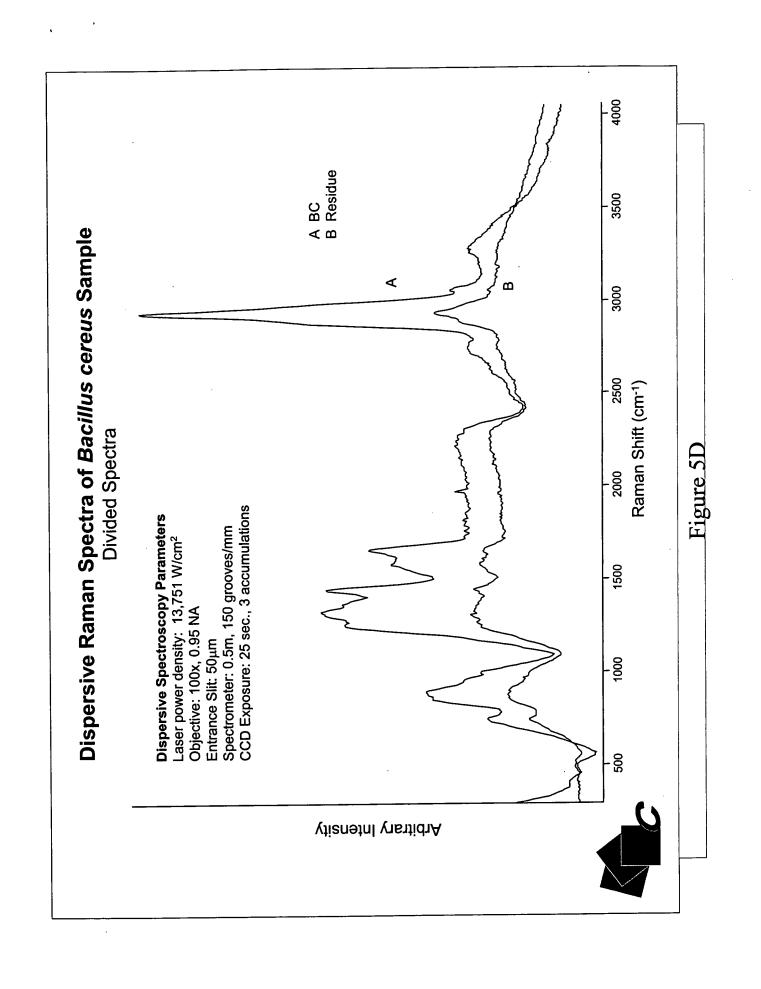


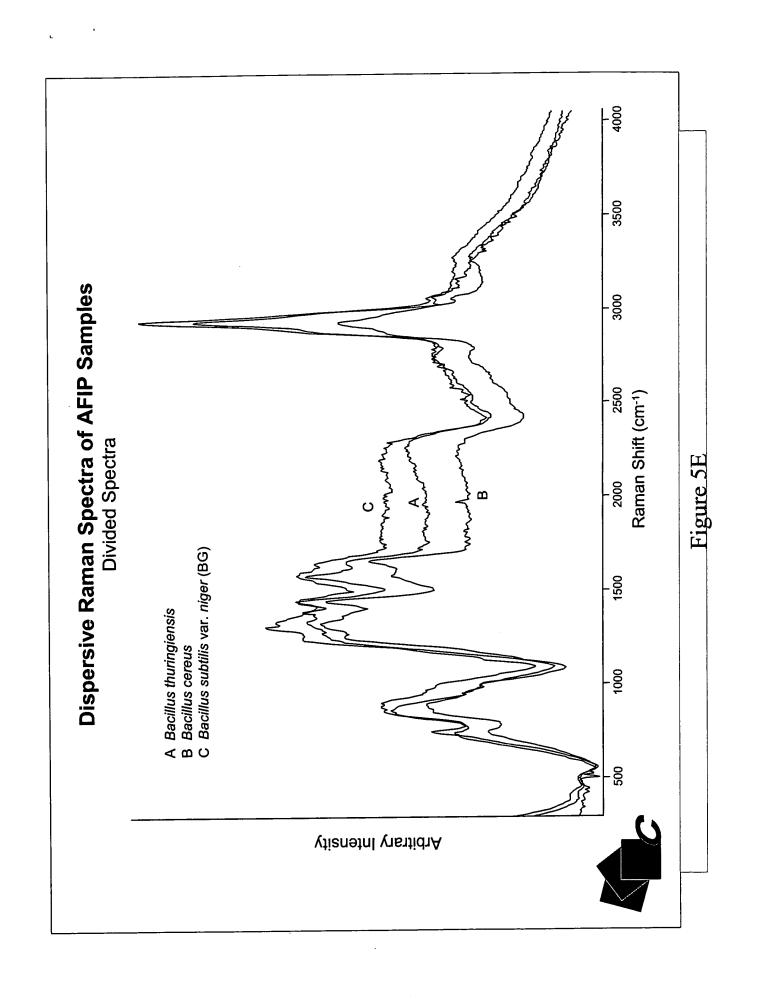


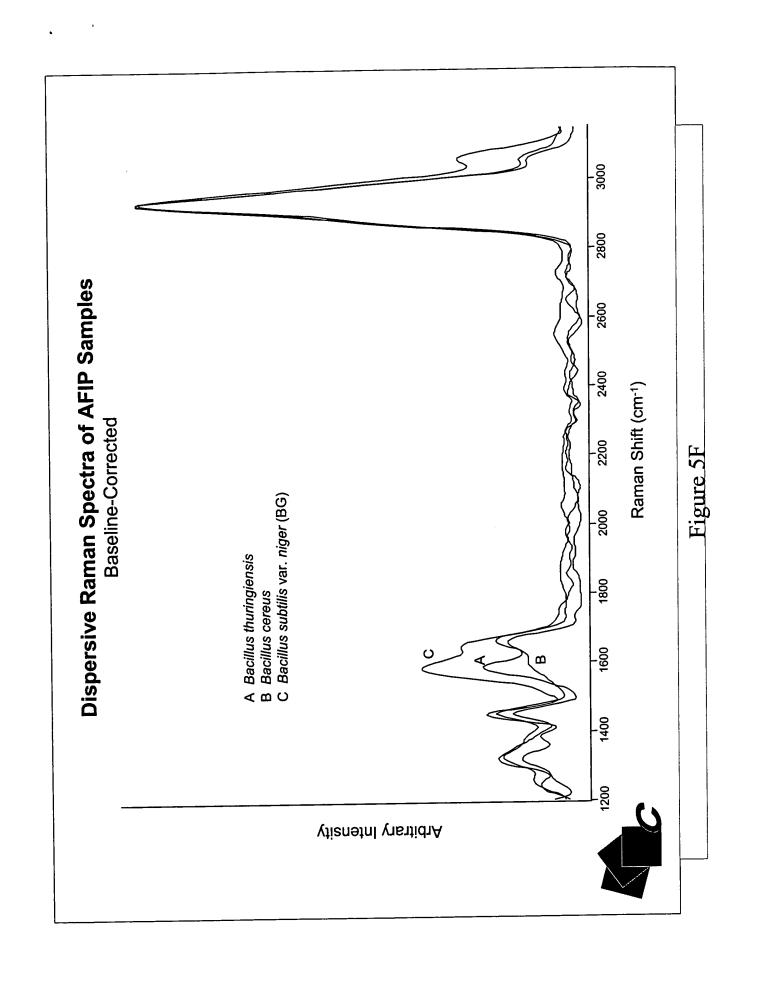


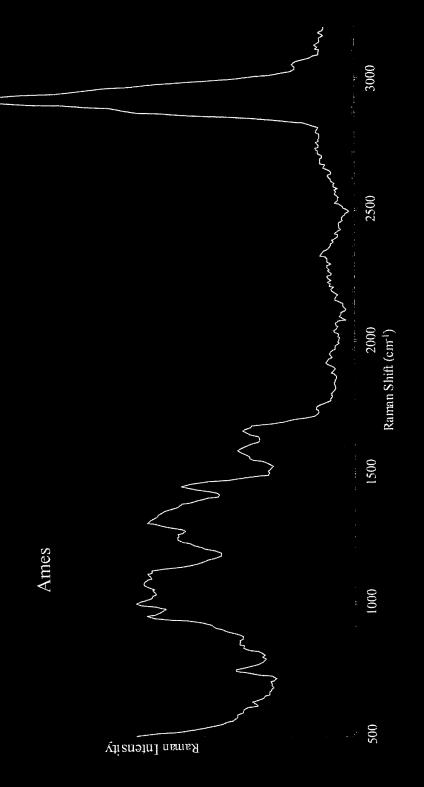






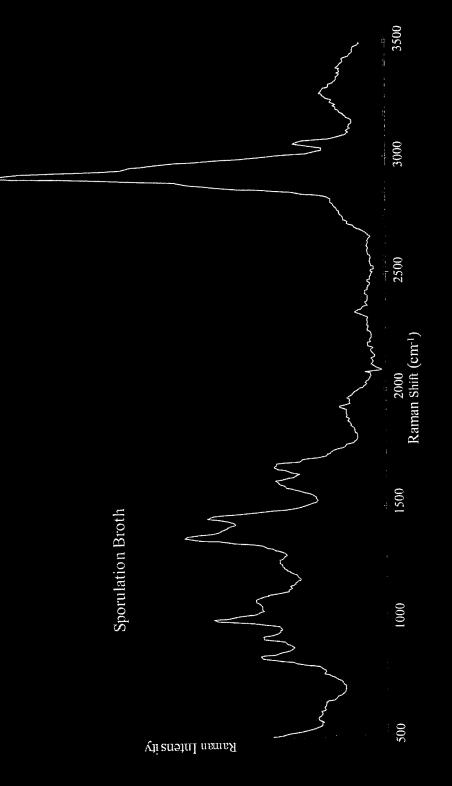






RCI can distinguish between multiple bacterial strains within a single species.





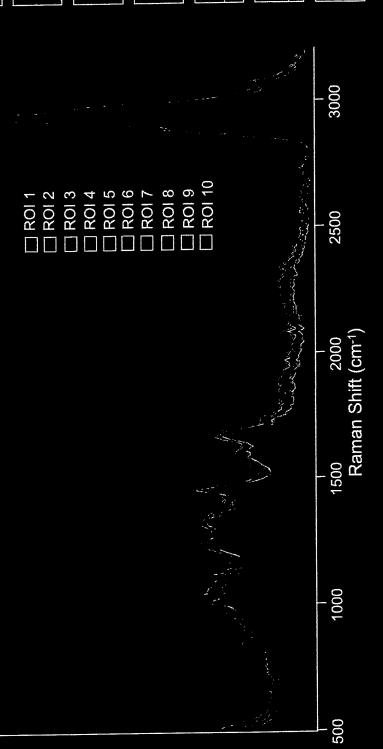
RCI can distinguish between different growth conditions.

FIGURE 7

Raman Spectra are reproducible

Dispersive Raman Spectroscopy – 10 Different Regions of Interest AFIP Samples - B. Anthracis in Sporulation Broth

- Statistical Analysis (F-Test) indicates reproducibility to 95% confidence level
- Collected with FALCON Raman Chemical Imaging Microscope
- Data Acquisition Time: 60 sec/spectrum



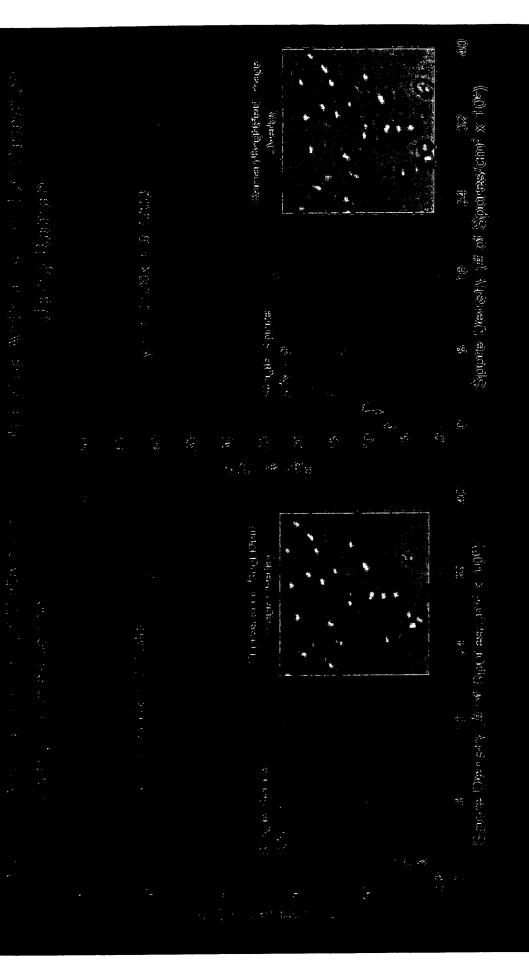
Intensity

FIGURE 8



RCI can distinguish between viable and non-viable spores

FIGURE 9



Preliminary Receiver Operator Characteristic (ROC) Curve Bacillus anthracis Discrimination Assessment

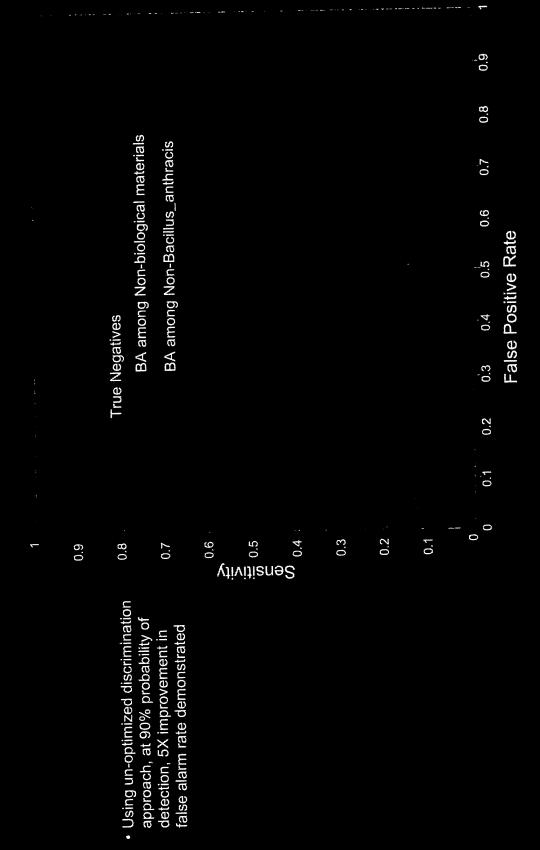
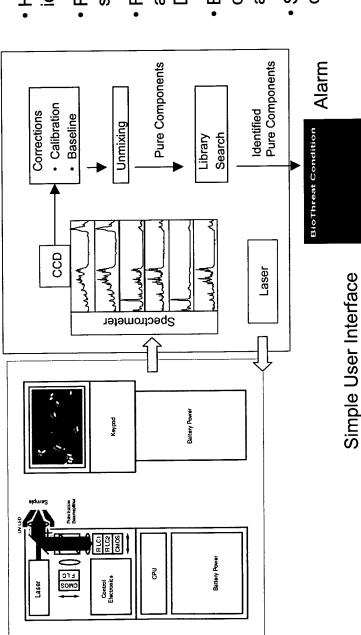


FIGURE 11

Handheld Pathogenic Microorganism Detector



- Handheld detection and identification system
- Reagentless point-detection system
- Fluorescence (screening) and Raman (diagnostic) Detection Capabilities
- Eye-safe, solar blind daytime operation through shielding at the probe tip
- Suitable for assessment of complex mixtures

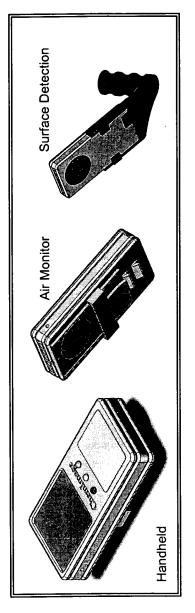




FIGURE 12